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Product Datasheet

Recombinant Human Serpin A1 (C-6His) EBT-EPT244

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| Article Name | Recombinant Human Serpin A1 (C-6His) |
| Biozol Catalog Number | EBT-EPT244 |
| Supplier Catalog Number | EPT244 |
| Alternative Catalog Number | EBT-EPT244-10 |
| Manufacturer | ELK Biotechnology |
| Category | Proteine/Peptide |
| Product Description | Recombinant Human Serine Protease Inhibitor-clade A1 is produced by our Mammalian expression system and the target gene encoding Glu25-Lys418 is expressed with a 6His tag at the C-terminus.... |
| Molecular Weight | Molecular weight: 45.35 KDa. Apparent molecular weight: 50-65 KDa, reducing conditions |
| UniProt | AAH11991.1 |
| Purity | Greater than 95% as determined by reducing SDS-PAGE. |

Application Notes

Redissolve: Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. Endotoxin: Less than 0.1 ng/µg (1 EU/µg) as determined by LAL test. Background: Serpin A1 is a prototype member of the Serpin superfamily of the serine protease inhibitors. As one of the most abundant proteinase inhibitors in the circulation, it is synthesized in hepatocytes, and to a lesser extent, in macrophages as well as intestinal epithelial cell lines and secreted as the abundant proteinase inhibitor in the circulation whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. Point mutations in the native SerpinA1 variants result in Serpin A1 deficiency, and consequently lead to several clinical complications such as pulmonary emphysema, juvenile hepatitis, cirrhosis, and hepatocellular carcinoma. For example, the Z variants (Glu342 to Lys) forms intracellular inclusion bodies, is not secreted, and leads to a severe SerpinA1 deficiency. Accordingly, Serpin A1 deficiency in circulation is associated with emphysema or liver disease